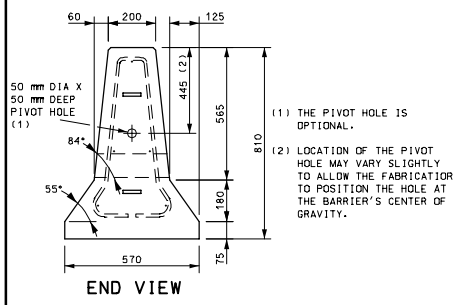
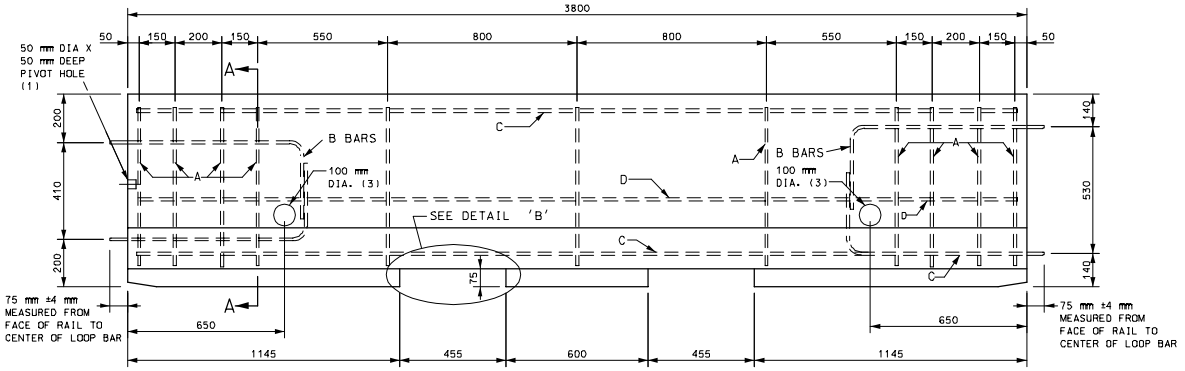


(1) THE PIVOT HOLE IS OPTIONAL.

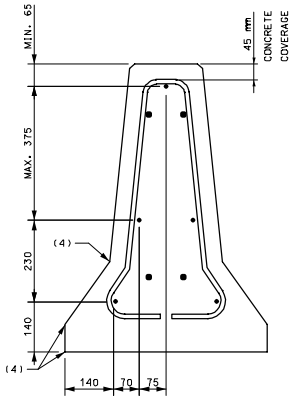
(2) LOCATION OF THE PIVOT HOLE MAY VARY SLIGHTLY TO ALLOW THE FABRICATIOR TO POSITION THE HOLE AT THE BARRIER'S CENTER OF GRAVITY.

END VIEW



ELEVATION VIEW

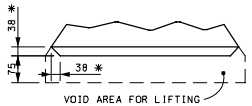
(3) OPTIONAL 100 mm DIAMETER 11 GAUGE STEEL ROUND MECHANICAL TUBING SLEEVE



(4) 25 mm RADIUS ALLOWED

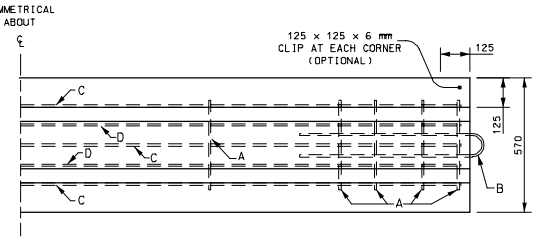
SECTION A-A
TYPICAL SECTION

STIRRUP PLACEMENT
WITH BAR REINFORCEMENT

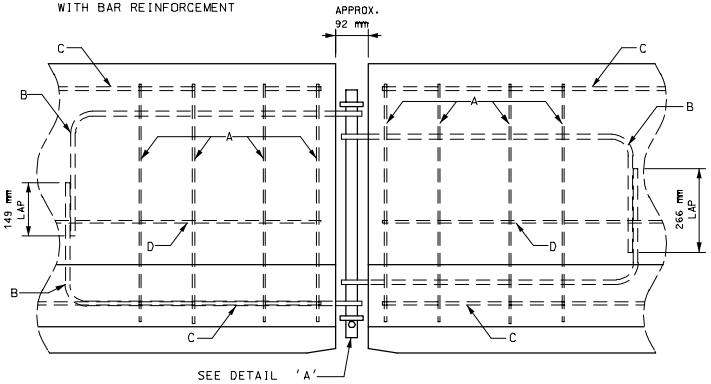


DETAIL 'B'
LIFTING SLOT DETAIL

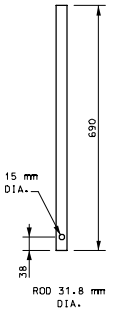
* CHAMFER TO PREVENT SPALLING

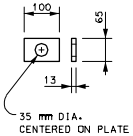


PLAN VIEW

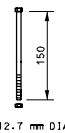


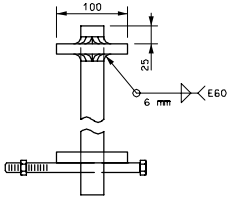
DETAILS OF BARRIER SECTION CONNECTION





TOP & BOTTOM
PLATE (A36M)





DETAIL 'A'

ENLARGED PIN DETAIL

GENERAL NOTES:

ALL DIMENSIONS SHOWN ARE IN mm UNLESS OTHERWISE NOTED.

MATERIALS AND METHODS OF CONSTRUCTION SHALL BE IN ACCORDANCE WITH CURRENT SPECIFICATIONS.

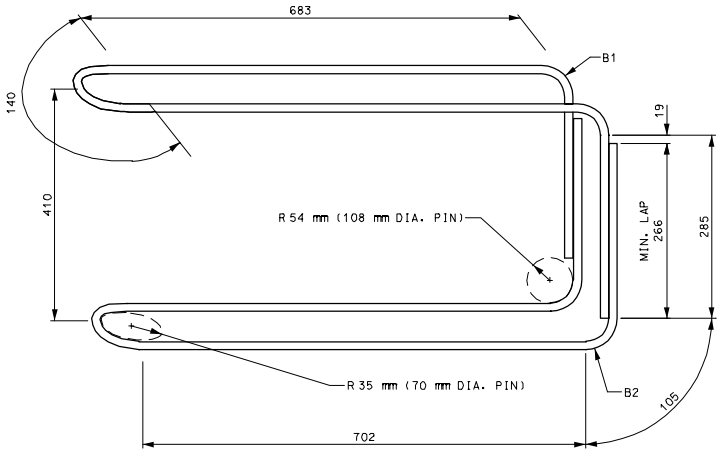
IN THE CLEAR ZONE. CRASHWORTHY END TREATMENT SHALL BE INSTALLED.

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

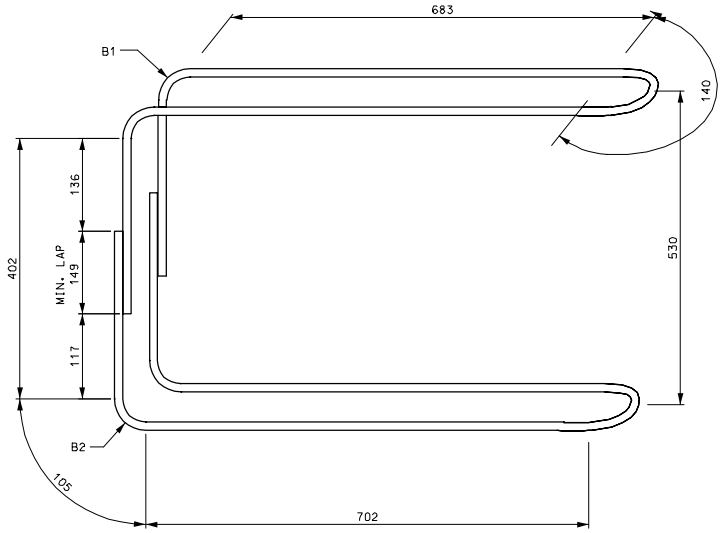
TEMPORARY
CONCRETE BARRIER

TYPE F

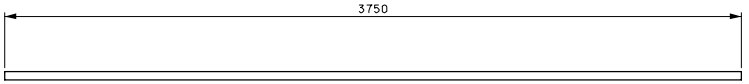
DATE:_____ | EFFECTIVE: 07-01-2002 | M617.30 | 1/4



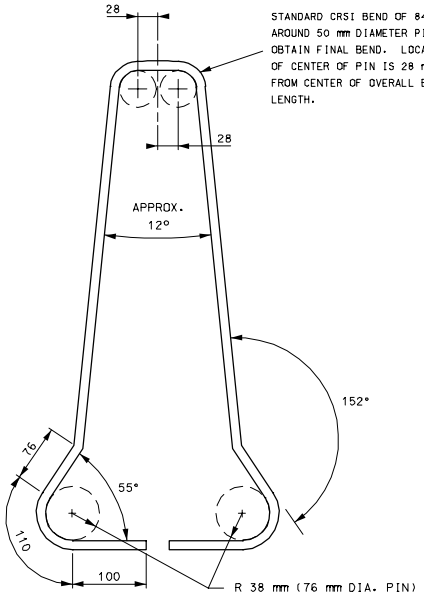
LOOP BARS LEFT
'B1' 'B2'



LOOP BARS RIGHT
'B1' 'B2'



UPPER AND LOWER LONGITUDINAL BARS – 'C'
AND
MID HEIGHT LONGITUDINAL BARS – 'D'



STANDARD CRSI BEND OF 84° AROUND 50 mm DIAMETER PIN TO OBTAIN FINAL BEND. LOCATION OF CENTER OF PIN IS 28 mm FROM CENTER OF OVERALL BAR LENGTH.

VERTICAL HOOPS ✳
'A'

LENGTHS MEASURED ALONG OUTSIDE OF HOOP.

MINIMUM 45 mm CLEARANCE BETWEEN ALL BARS AND OUTSIDE SURFACE OF BARRIER.

✳ WIRE MESH MAY BE SUBSTITUTED FOR 'A', 'C' AND 'D' BARS. SEE SHEET 3 OF 4.

REINFORCING BARS
PER 3800 mm BARRIER SECTION

MARK	DIA. (MM)	NO. OF BARS	SHAPE OF EACH	LENGTH EACH (mm)	TOTAL LENGTH (m)	MASS
A	12.7	11	SEE DETAIL	1711	18.821	18.7 kg
C	15.875	3	SEE DETAIL	3750	11.25	17.5 kg
D	12.7	2	SEE DETAIL	3750	7.5	7.5 kg
19 mm DIA. AASHTO M 31 420MPa PLAIN ROUND						
B1	19.05	2	SEE DETAIL	2286	4.572	10.3 kg
B2	19.05	2	SEE DETAIL	2286	4.572	10.3 kg

CONCRETE VOLUME 0.9 m^3 APPROXIMATE MASS 2345 kg

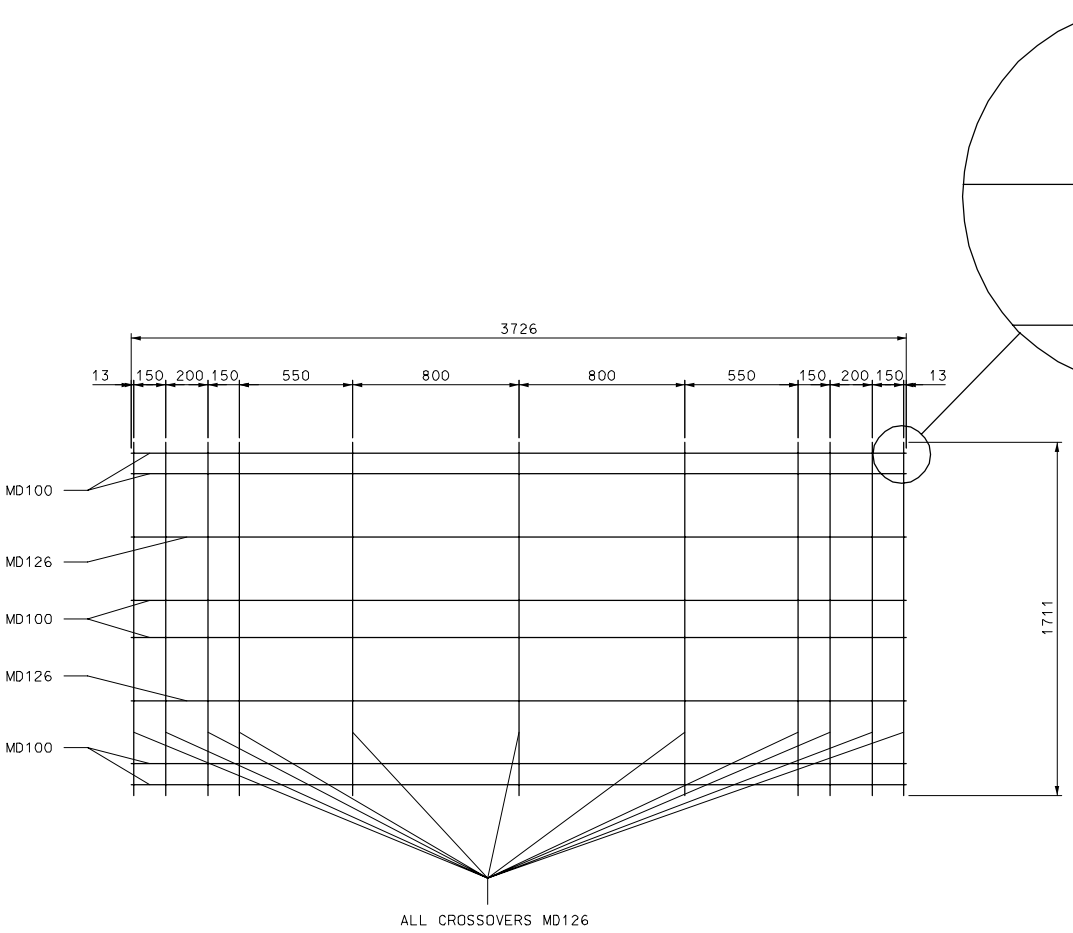
GENERAL NOTES:

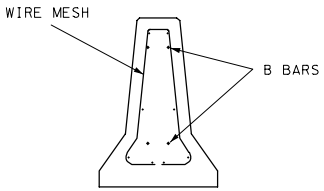
ALL DIMENSIONS SHOWN ARE IN mm UNLESS OTHERWISE NOTED.

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

TEMPORARY
CONCRETE BARRIER
TYPE F

DATE:_____ | EFFECTIVE: 07-01-2002 | M617.30 | 2/4





SECTION A-A

(FROM SHEET 1 OF 4)

TYPICAL SECTION WITH
WIRE MESH REINFORCEMENT

WIRE MESH ✳

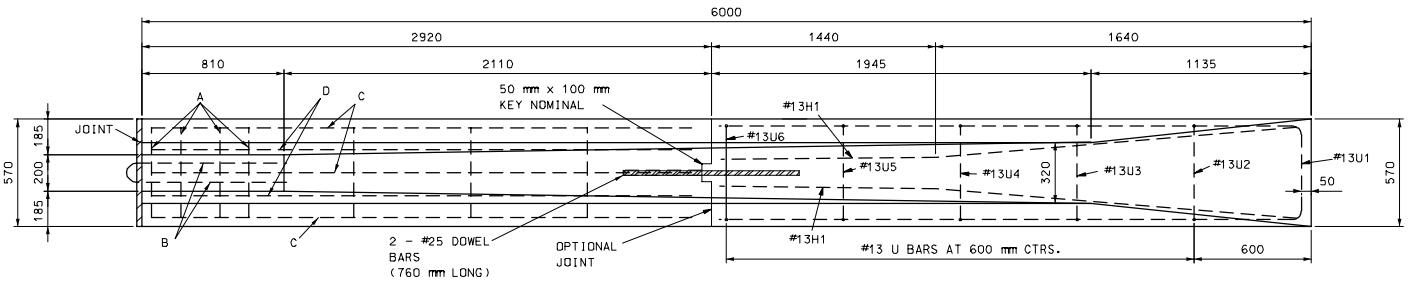
✳ WIRE MESH SHALL BE FORMED AND INSTALLED TO MATCH THE SHAPE AND LOCATION OF THE TYPE A BAR (STIRRUP) AS SHOWN IN SECTION A-A ON SHEET 1 OF 4.

WIRE MESH SHALL BE AASHTO M 221 DEFORMED MESH, FURNISHED IN THE APPROXIMATE MAT SIZE WITH THE ABOVE SPECIFIED WIRE SIZES.

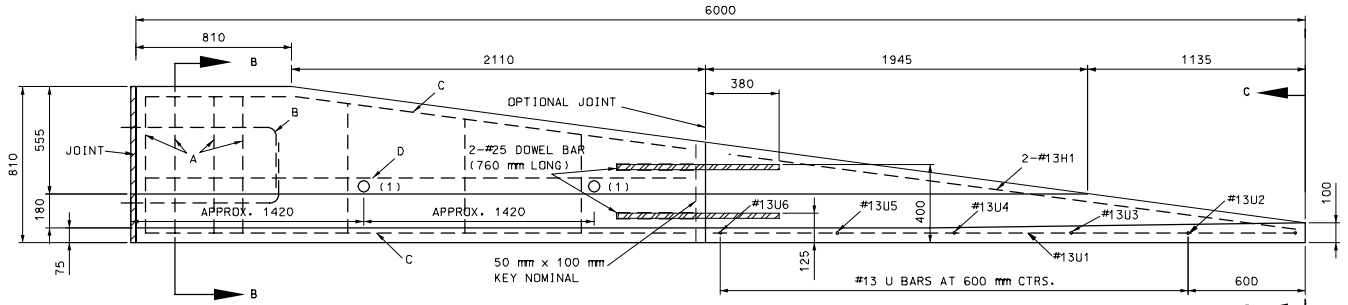
GENERAL NOTES:

ALL DIMESNIONS SHOWN ARE IN mm UNLESS OTHERWISE NOTED.

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION			
	TEMPORARY CONCRETE BARRIER TYPE F		
DATE:_____	EFFECTIVE: 07-01-2002	M617.30	3/4

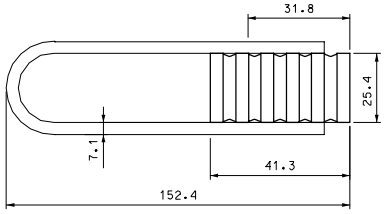


PLAN



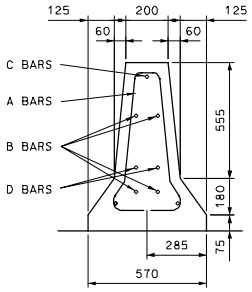
ELEVATION

PRECAST BARRIER HEIGHT TRANSITION
(TEMPORARY INSTALLATIONS ONLY)

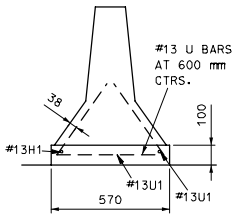


STRAIT FERRULE
LOOP INSERT

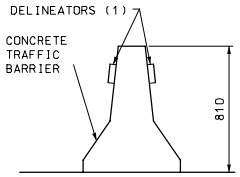
(1) OPTIONAL 100 mm DIAMETER, 11 GUAGE STEEL ROUND MECHANICAL TUBING SLEEVE FOR LIFT HOLE ALLOWED. THE LOCATION OF THE HOLE MAY BE VARIED TO ACCOMMODATE THE DIFFERING WEIGHT DISTRIBUTIONS OF TRANSITION SECTIONS. PAIRS OF 18 mm STRAIT FERRULE LOOP INSERTS MAY BE USED AS AN ALTERNATE TO LIFT HOLES. LARGER STRAIT FERRULE LOOP INSERTS MAY BE USED.



SECTION B-B



SECTION C-C



TRAFFIC BARRIER
DELINEATORS

(1) AS SHOWN ON PLANS

ONE DELINEATOR SHALL BE INSTALLED ON EACH END OF THE FIRST STANDARD SECTION AND ON THE END OF THE OTHER SECTIONS THROUGHOUT THE LENGTH OF THE TEMPORARY BARRIER. NO DIRECT PAYMENT WILL BE MADE FOR DELINEATORS.

THE DELINEATOR BODY SHALL BE MADE FROM HIGH IMPACT, WEATHERABLE ENGINEERING THERMOPLASTIC WITH A MINIMUM THICKNESS OF 2.29 mm.

THE DELINEATOR REFLECTOR SHALL BE PERMANENTLY AFFIXED AND BE A RETRO-REFLECTIVE ACRYLIC MICROPRISM SHEETING WITH ACRYLIC BACKING, OR APPROVED EQUAL, HAVING A MINIMUM REFLECTIVE SURFACE OF 7740 mm². WHITE SHEETING SHALL HAVE A MINIMUM REFLECTANCE OF 1000 CANDLEPOWER PER LUX-CANDLE PER SQUARE METER AT 0.1 DEGREE OBSERVATION AND ZERO DEGREE ENTRANCE ANGLES. AMBER SHEETING SHALL HAVE A MINIMUM REFLECTANCE OF 600 CANDLEPOWER PER LUX PER SQUARE METER AT 0.1 DEGREE OBSERVATION AND ZERO DEGREE ENTRANCE ANGLES. DELINEATOR REFLECTOR COLORS SHALL CORRESPOND WITH PAVEMENT MARKING PRACTICES. WHERE BARRIER DELINEATION IS REQUIRED FOR BOTH DIRECTIONS OF TRAVEL, THE DELINEATOR SHALL HAVE REFLECTORS ON BOTH SIDES.

DELINEATORS SHALL BE MOUNTED TO THE TRAFFIC BARRIER IN ACCORDANCE WITH THE MANUFACTURER'S RECOMMENDED PROCEDURES AND MATERIAL.

IF THE ENGINEER DETERMINES A DELINEATOR DAMAGED OR DETERIORATED TO THE EXTENT THATIT IS NO LONGER EFFECTIVE DUE TO DIRT, GRIME, SCARRING OR DISCOLORATION, IT SHALL BE REPLACED OR CLEANED AS REQUIRED, BY THE CONTRACTOR AS SOON AS POSSIBLE. ANY MISSING DELINEATORS SHALL BE REPLACED BY THE CONTRACTOR AT THE CONTRACTOR'S EXPENSE.

GENERAL NOTES:

ALL DIMENSIONS SHOWN ARE IN mm UNLESS OTHERWISE NOTED.

WHERE CHANGES IN THE CONSTRUCTION SEQUENCE OR DETOURS OCCUR, THE TEMPORARY TRAFFIC BARRIER SHALL BE RELOCATED AS DIRECTED BY THE ENGINEER.

ALL DAMAGED AND SURPLUS TEMPORARY TRAFFIC BARRIER SHALL BE DISPOSED OF BY THE CONTRACTOR OFF THE HIGHWAY RIGHT-OF-WAY.

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION			
	TEMPORARY CONCRETE BARRIER TYPE F		
DATE:_____	EFFECTIVE: 07-01-2002	M617.30	4/4